

BEST AVAILABLE COPY

Richard Schnizer

=> d his

(FILE 'REGISTRY' ENTERED AT 11:57:33 ON 26 APR 2004)

DEL HIS Y

ACT SCHNIZER/A

L1 (539050)SEA FILE=REGISTRY ABB=ON PLU=ON 591.49.57/RID
L2 (1199182)SEA FILE=REGISTRY ABB=ON PLU=ON (46.150.18 /RID AND NC<2 AND
L3 (65359)SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND NC<2 AND NRS=1
L4 (60940)SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND (N/ELS OR O/ELS OR S/E
L5 (1260122)SEA FILE=REGISTRY ABB=ON PLU=ON L4 OR L2
L6 STR
L7 (826409)SEA FILE=REGISTRY ABB=ON PLU=ON L5 NOT (PMS/CI OR M/ELS OR X/
L8 1975 SEA FILE=REGISTRY SUB=L7 SSS FUL L6

FILE 'CAPLUS' ENTERED AT 13:22:33 ON 26 APR 2004

FILE 'REGISTRY' ENTERED AT 13:22:43 ON 26 APR 2004

FILE 'CAPLUS' ENTERED AT 13:23:55 ON 26 APR 2004

L9 1937 S L8
L10 33398 S OLIGONUCLEOTID?
L11 2 S L10 AND L9
L12 1202236 S NUCLEOTID? OR POLYNUCLEOTI? OR VECTOR OR PLASMID OR GENE OR
L13 1544670 S POLYPEPTIDE? OR PROTEIN? OR ANTIGEN? OR POLYSACCHARID?
L14 14 S L9 (L) L12
L15 21 S L13 (L) L9
L16 33 S L11 OR L14 OR L15
L17 5 S NUCLEIC AND L9
L18 35 S L17 OR L16
L19 448537 S TRANSPORT?
L20 2 S L19 (L) L8

BEST AVAILABLE COPY

Richard Schnizer

=> fil reg

FILE 'REGISTRY' ENTERED AT 13:29:11 ON 26 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 23 APR 2004 HIGHEST RN 676578-75-9
DICTIONARY FILE UPDATES: 23 APR 2004 HIGHEST RN 676578-75-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

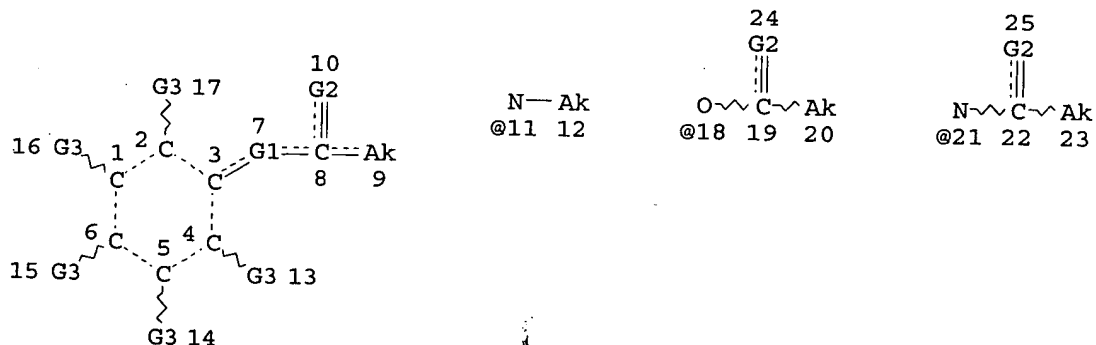
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d que stat 18

L1 (539050)SEA FILE=REGISTRY ABB=ON PLU=ON 591.49.57/RID
L2 (1199182)SEA FILE=REGISTRY ABB=ON PLU=ON (46.150.18 /RID AND NC<2 AND
(N/ELS OR O/ELS OR S/ELS) AND NRS=1)NOT PMS/CI
L3 (65359)SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND NC<2 AND NRS=1
L4 (60940)SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND (N/ELS OR O/ELS OR
S/ELS)
L5 (1260122)SEA FILE=REGISTRY ABB=ON PLU=ON L4 OR L2
L6 STR



VAR G1=O/N
VAR G2=O/S/11
VAR G3=H/18/21
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M5-X23 C AT 9
ECOUNT IS M1-X18 C AT 12
ECOUNT IS M5-X23 C AT 20
ECOUNT IS M5-X23 C AT 23

BEST AVAILABLE COPY

Richard Schnizer

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L7 (826409)SEA FILE=REGISTRY ABB=ON PLU=ON L5 NOT (PMS/CI OR M/ELS OR X/ELS)
L8 1975 SEA FILE=REGISTRY SUB=L7 SSS FUL L6

99.4% PROCESSED 287300 ITERATIONS (45 INCOMPLETE) 1975 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.23.17

PROJECTIONS (WITHIN SPECIFIED SUBSET): ONLINE **COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET): 288927 TO 288927
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET): 1975 TO 2119

*> Did not quite process to 100% (99.4%) System timed out. let
me know if this is a problem.*

=> fil caplus

FILE 'CAPLUS' ENTERED AT 13:29:25 ON 26 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 26 Apr 2004 VOL 140 ISS 18
FILE LAST UPDATED: 25 Apr 2004 (20040425/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que nos l18

L1 (539050)SEA FILE=REGISTRY ABB=ON PLU=ON 591.49.57/RID
L2 (1199182)SEA FILE=REGISTRY ABB=ON PLU=ON (46.150.18 /RID AND NC<2 AND (N/ELS OR O/ELS OR S/ELS) AND NRS=1)NOT PMS/CI
L3 (65359)SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND NC<2 AND NRS=1
L4 (60940)SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND (N/ELS OR O/ELS OR S/ELS)
L5 (1260122)SEA FILE=REGISTRY ABB=ON PLU=ON L4 OR L2
L6 STR
L7 (826409)SEA FILE=REGISTRY ABB=ON PLU=ON L5 NOT (PMS/CI OR M/ELS OR X/ELS)
L8 1975 SEA FILE=REGISTRY SUB=L7 SSS FUL L6
L9 1937 SEA FILE=CAPLUS ABB=ON PLU=ON L8
L10 33398 SEA FILE=CAPLUS ABB=ON PLU=ON OLIGONUCLEOTID?/OBI
L11 2 SEA FILE=CAPLUS ABB=ON PLU=ON L10 AND L9
L12 1202236 SEA FILE=CAPLUS ABB=ON PLU=ON NUCLEOTID?/OBI OR POLYNUCLEOTI?

Richard Schnizer

4/26/04

/OBI OR VECTOR/OBI OR PLASMID/OBI OR GENE/OBI OR DNA/OBI OR RNA/OBI

L13 1544670 SEA FILE=CAPLUS ABB=ON PLU=ON POLYPEPTIDE?/OBI OR PROTEIN?/OBI OR ANTIGEN?/OBI OR POLYSACCHARID?/OBI

L14 14 SEA FILE=CAPLUS ABB=ON PLU=ON L9 (L) L12

L15 21 SEA FILE=CAPLUS ABB=ON PLU=ON L13 (L) L9

L16 33 SEA FILE=CAPLUS ABB=ON PLU=ON L11 OR L14 OR L15

L17 5 SEA FILE=CAPLUS ABB=ON PLU=ON NUCLEIC/OBI AND L9

L18 35 SEA FILE=CAPLUS ABB=ON PLU=ON L17 OR L16

=> d que nos 120

L1 (539050) SEA FILE=REGISTRY ABB=ON PLU=ON 591.49.57/RID

L2 (1199182) SEA FILE=REGISTRY ABB=ON PLU=ON (46.150.18 /RID AND NC<2 AND (N/ELS OR O/ELS OR S/ELS) AND NRS=1) NOT PMS/CI

L3 (65359) SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND NC<2 AND NRS=1

L4 (60940) SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND (N/ELS OR O/ELS OR S/ELS)

L5 (1260122) SEA FILE=REGISTRY ABB=ON PLU=ON L4 OR L2

L6 STR

L7 (826409) SEA FILE=REGISTRY ABB=ON PLU=ON L5 NOT (PMS/CI OR M/ELS OR X/ELS)

L8 1975 SEA FILE=REGISTRY SUB=L7 SSS FUL L6

L19 448537 SEA FILE=CAPLUS ABB=ON PLU=ON TRANSPORT?/OBI

L20 2 SEA FILE=CAPLUS ABB=ON PLU=ON L19 (L) L8

=> d .ca hitstr l18 1-35

L18 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:131057 CAPLUS

DOCUMENT NUMBER: 140:280965

TITLE: Histone deacetylase (HDAC) inhibitor activation of p21WAF1 involves changes in promoter-associated proteins, including HDAC1

AUTHOR(S): Gui, C.-Y.; Ngo, L.; Xu, W. S.; Richon, V. M.; Marks, P. A.

CORPORATE SOURCE: Cell Biology Program, Memorial Sloan-Kettering Cancer Center, New York, NY, 10021, USA

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (2004), 101(5), 1241-1246
CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Histone deacetylase (HDAC) inhibitors (HDACi) cause cancer cell growth arrest and/or apoptosis in vivo and in vitro. The HDACi suberoylanilide hydroxamic acid (SAHA) is in phase I/II clin. trials showing significant anticancer activity. Despite wide distribution of HDACs in chromatin, SAHA alters the expression of few genes in transformed cells. P21WAF1 is one of the most commonly induced. SAHA does not alter the expression of p27KIP1, an actively transcribed gene, or globin, a silent gene, in ARP-1 cells. Here we studied SAHA-induced changes in the p21WAF1 promoter of ARP-1 cells to better understand the mechanism of HDACi gene activation. Within 1 h, SAHA caused modifications in acetylation and methylation of core histones and increased DNase I sensitivity and restriction enzyme accessibility in the p21WAF1 promoter. These changes did not occur in the p27KIP1 or ϵ -globin gene-related histones. The HDACi caused a marked decrease in HDAC1 and Myc and an increase in RNA polymerase II in proteins bound to the p21WAF1 promoter. Thus, this study identifies